

TABLE E1. Associations between prevalence of infections with sIgE levels, skin reactivity (SPT responses) to aeroallergens, current wheeze, current wheeze plus symptoms, and asthma ever in life in children 4 to 5 years old (n = 311)

Infections	sIgE level ≥ 0.70 kU/L*		Positive SPT response*		Current wheeze		Current wheeze plus symptoms		Asthma ever in life	
	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†
<i>T gondii</i>										
Yes (n = 44 [14.1%])	16 (36.4)	1	12 (27.3)	1	21 (47.7)	1	23 (52.3)	1	6 (13.6)	1
No (n = 267 [85.9%])	100 (37.5)	1.18 (0.59-2.34)	77 (28.8)	1.15 (0.55-2.40)	88 (33.0)	0.65 (0.34-1.27)	112 (41.9)	0.56 (0.29-1.09)	19 (7.1)	0.35 (0.12-1.01)
<i>H pylori</i>										
Yes (n = 68 [21.9%])	32 (47.1)	1	20 (29.4)	1	25 (36.8)	1	32 (47.1)	1	1 (1.5)	1
No (n = 243 [78.1%])	84 (34.6)	0.60 (0.35-1.04)	69 (28.4)	0.95 (0.53-1.73)	84 (34.6)	0.83 (0.48-1.44)	103 (42.4)	0.94 (0.53-1.66)	24 (9.9)	9.16 (1.18-71.08)
Hepatitis A virus										
Yes (n = 44 [14.1%])	15 (34.1)	1	16 (36.4)	1	15 (34.1)	1	19 (43.2)	1	5 (11.3)	1
No (n = 267 [85.9%])	101 (37.8)	1.31 (0.65-2.61)	73 (27.3)	0.65 (0.33-1.31)	94 (35.2)	0.99 (0.51-1.93)	116 (43.4)	1.11 (0.55-2.23)	20 (7.5)	0.43 (0.14-1.34)
Herpes zoster virus										
Yes (n = 103 [33.1%])	31 (30.1)	1	30 (29.1)	1	36 (35.0)	1	45 (43.7)	1	9 (8.7)	1
No (n = 208 [66.9%])	85 (40.9)	1.64 (0.98-2.73)	59 (28.4)	0.97 (0.58-1.64)	73 (35.1)	1.02 (0.63-1.65)	90 (43.3)	1.07 (0.65-1.78)	16 (7.7)	0.92 (0.38-2.23)
Herpes simplex virus										
Yes (n = 151 [48.6%])	54 (35.8)	1	35 (23.2)	1	54 (35.8)	1	67 (44.4)	1	14 (9.3)	1
No (n = 160 [51.4%])	62 (38.8)	1.16 (0.72-1.85)	54 (33.8)	1.77 (1.07-2.95)	55 (34.8)	0.95 (0.60-1.50)	68 (42.5)	0.96 (0.59-1.55)	11 (6.9)	0.66 (0.28-1.55)
EBV										
Yes (n = 274 [88.1%])	104 (38.0)	1	77 (28.1)	1	92 (33.4)	1	115 (42.0)	1	21 (7.7)	1
No (n = 37 [11.9%])	12 (32.4)	0.84 (0.40-1.78)	12 (32.4)	1.29 (0.61-2.73)	17 (45.9)	1.77 (0.87-3.57)	20 (54.1)	1.98 (0.97-4.06)	4 (10.8)	1.59 (0.49-5.23)
<i>A lumbricoides</i>										
Yes (n = 45 [14.5%])	17 (38.4)	1	11 (24.4)	1	21 (46.7)	1	27 (60.0)	1	5 (11.1)	1
No (n = 266 [85.5%])	99 (37.2)	1.10 (0.56-2.18)	78 (29.3)	1.42 (0.67-3.03)	88 (33.1)	0.47 (0.24-0.93)	108 (40.6)	0.66 (0.34-1.30)	20 (7.5)	0.62 (0.20-1.95)
<i>T trichiura</i>										
Yes (n = 28 [9.0%])	11 (39.3)	1	8 (28.6)	1	13 (46.4)	1	15 (53.6)	1	1 (3.6)	1
No (n = 283 [91.0%])	105 (37.1)	1.03 (0.45-2.34)	81 (28.6)	1.06 (0.44-2.57)	96 (33.9)	0.68 (0.30-1.51)	120 (42.4)	0.70 (0.31-1.58)	24 (8.5)	2.77 (0.34-22.56)

Boldface numbers are statistically significant.

*sIgE and SPT results for at least 1 tested allergen.

†Adjusted for sex, age, maternal education, and parental asthma.

TABLE E2. Associations between prevalence of infections with sIgE levels, skin reactivity (SPT responses) to aeroallergens, current wheeze, current wheeze plus symptoms and asthma ever in life in children from 6 to 7 years old (n = 483)

Infections	sIgE ≥0.70 kU/L*		Positive SPT response*		Current wheeze		Current wheeze plus symptoms		Asthma ever in life	
	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†
<i>T gondii</i>										
Yes (n = 75 [15.5%])	25 (33.3)	1	18 (24.0)	1	16 (21.3)	1	23 (30.7)	1	7 (9.3)	1
No (n = 408 [84.5%])	160 (39.2)	1.28 (0.75-2.17)	125 (30.6)	1.36 (0.76-2.41)	85 (20.8)	1.00 (0.54-1.84)	113 (27.7)	0.88 (0.51-1.52)	29 (7.1)	0.78 (0.31-1.93)
<i>H pylori</i>										
Yes (n = 131 [27.1%])	48 (36.6)	1	39 (29.8)	1	22 (16.8)	1	32 (24.4)	1	9 (6.9)	1
No (n = 352 [72.9%])	137 (38.9)	1.07 (0.70-1.63)	104 (29.5)	0.98 (0.63-1.52)	79 (22.4)	1.40 (0.82-2.37)	104 (29.5)	1.25 (0.79-1.99)	27 (7.7)	1.14 (0.50-2.58)
Hepatitis A virus										
Yes (n = 70 [14.5%])	29 (41.4)	1	20 (28.6)	1	15 (21.4)	1	20 (28.6)	1	8 (11.4)	1
No (n = 413 [85.5%])	156 (37.8)	0.85 (0.50-1.45)	123 (29.8)	0.97 (0.55-1.72)	86 (20.8)	0.95 (0.51-1.78)	116 (28.1)	0.94 (0.53-1.67)	28 (6.8)	0.45 (0.19-1.10)
Herpes zoster virus										
Yes (n = 221 [45.8%])	82 (37.1)	1	64 (29.0)	1	52 (23.5)	1	67 (30.3)	1	14 (6.3)	1
No (n = 262 [54.2%])	103 (39.3)	1.06 (0.73-1.55)	79 (30.2)	1.04 (0.70-1.55)	49 (18.7)	0.75 (0.48-1.17)	69 (26.3)	0.82 (0.55-1.23)	22 (8.4)	1.47 (0.71-3.03)
Herpes simplex virus										
Yes (n = 251 [52.0%])	91 (36.3)	1	65 (26.0)	1	45 (17.9)	1	68 (27.1)	1	18 (7.2)	1
No (n = 232 [48.0%])	94 (40.5)	1.20 (0.82-1.76)	78 (33.6)	1.36 (0.91-2.03)	56 (24.1)	1.41 (0.89-2.21)	68 (29.3)	1.07 (0.71-1.61)	18 (7.8)	0.91 (0.44-1.89)
EBV										
Yes (n = 421 [87.2%])	157 (37.3)	1	123 (29.2)	1	89 (21.1)	1	117 (27.8)	1	32 (7.6)	1
No (n = 62 [12.8%])	28 (45.2)	1.30 (0.75-2.27)	20 (32.3)	1.03 (0.57-1.84)	12 (19.4)	0.92 (0.46-1.82)	19 (30.6)	1.15 (0.64-2.08)	4 (6.5)	0.85 (0.28-2.63)
<i>A lumbricoides</i>										
Yes (n = 82 [17.0%])	29 (35.4)	1	14 (17.1)	1	15 (18.3)	1	24 (29.3)	1	6 (7.3)	1
No (n = 401 [83.0%])	156 (38.9)	1.18 (0.70-1.99)	129 (32.2)	2.09 (1.12-3.91)	86 (21.4)	1.34 (0.71-2.52)	112 (27.9)	0.97 (0.56-1.67)	30 (7.5)	1.02 (0.39-2.68)
<i>T trichiura</i>										
Yes (n = 55 [11.4%])	18 (32.7)	1	8 (14.5)	1	10 (18.2)	1	15 (27.3)	1	4 (7.3)	1
No (n = 428 [88.6%])	167 (39.0)	1.38 (0.74-2.54)	135 (31.5)	2.52 (1.15-5.52)	91 (21.3)	1.29 (0.62-2.70)	121 (28.3)	1.08 (0.57-2.05)	32 (7.5)	0.98 (0.32-3.06)

Boldface numbers are statistically significant.

*sIgE and SPT results for at least 1 tested allergen.

†Adjusted for sex, age, maternal education, and parental asthma.

TABLE E3. Associations between prevalence of infections with specific IgE levels (sIgE), skin reactivity (SPT responses) to aeroallergens, current wheeze, current wheeze plus symptoms, and asthma ever in life in children 7 to 11 years old (n = 388)

Infections	sIgE ≥ 0.70 kU/L*		Positive SPT response*		Current wheeze		Current wheeze plus symptoms		Asthma ever in life	
	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†	No. (%)	OR (95% CI)†
<i>T gondii</i>										
Yes (n = 98 [25.3%])	26 (26.5)	1	20 (20.4)	1	16 (16.3)	1	23 (23.5)	1	6 (6.1)	1
No (n = 290 [74.7%])	121 (41.7)	1.98 (1.18-3.31)	107 (36.9)	2.32 (1.33-4.03)	37 (12.8)	0.77 (0.40-1.47)	50 (17.2)	0.69 (0.39-1.23)	13 (4.5)	0.65 (0.24-1.80)
<i>H pylori</i>										
Yes (n = 129 [33.2%])	42 (32.6)	1	36 (27.9)	1	13 (10.1)	1	21 (16.3)	1	3 (2.3)	1
No (n = 259 [66.8%])	105 (40.5)	1.50 (0.95-2.36)	91 (35.1)	1.44 (0.90-2.31)	40 (15.4)	1.73 (0.88-3.40)	52 (20.1)	1.38 (0.78-2.44)	16 (6.2)	2.80 (0.79-9.89)
Hepatitis A virus										
Yes (n = 82 [21.1%])	29 (35.4)	1	23 (28.0)	1	11 (13.4)	1	15 (18.3)	1	4 (4.9)	1
No (n = 306 [78.9%])	118 (38.6)	1.11 (0.66-1.86)	104 (34.0)	1.26 (0.73-2.18)	42 (13.7)	1.19 (0.57-2.48)	58 (19.0)	1.25 (0.65-2.40)	15 (4.9)	1.03 (0.33-3.25)
Herpes zoster virus										
Yes (n = 212 [54.6%])	87 (41.0)	1	66 (31.1)	1	30 (14.2)	1	43 (20.3)	1	13 (6.13)	1
No (n = 176 [45.4%])	60 (34.1)	0.76 (0.50-1.16)	61 (34.7)	1.20 (0.78-1.85)	23 (13.1)	0.97 (0.53-1.75)	30 (17.0)	0.85 (0.50-1.45)	6 (3.4)	0.56 (0.20-1.51)
Herpes simplex virus										
Yes (n = 242 [62.4%])	87 (36.0)	1	71 (29.3)	1	35 (14.5)	1	49 (20.2)	1	11 (4.5)	1
No (n = 146 [37.6%])	60 (41.1)	1.20 (0.78-1.86)	56 (38.4)	1.45 (0.94-2.26)	18 (12.3)	0.92 (0.50-1.72)	24 (16.4)	0.87 (0.50-1.52)	8 (5.5)	1.19 (0.46-3.09)
EBV										
Yes (n = 351 [90.5%])	125 (35.6)	1	104 (29.6)	1	48 (13.7)	1	64 (18.2)	1	15 (4.3)	1
No (n = 37 [9.5%])	22 (59.5)	2.66 (1.31-5.40)	23 (62.2)	3.84 (1.88-7.83)	5 (13.5)	1.06 (0.39-2.90)	9 (24.3)	1.63 (0.71-3.72)	4 (10.8)	2.53 (0.78-8.28)
<i>A lumbricoides</i>										
Yes (n = 63 [16.2%])	27 (42.9)	1	18 (28.6)	1	13 (20.6)	1	17 (27.0)	1	1 (1.6)	1
No (n = 325 [83.8%])	120 (36.9)	0.78 (0.44-1.39)	109 (33.5)	1.24 (0.67-2.29)	40 (12.3)	0.66 (0.32-1.37)	56 (17.2)	0.72 (0.37-1.38)	18 (5.5)	4.08 (0.51-32.48)
<i>T trichiura</i>										
Yes (n = 45 [11.6%])	15 (33.3)	1	15 (33.3)	1	7 (15.6)	1	9 (20.0)	1	3 (6.7)	1
No (n = 343 [88.4%])	132 (38.5)	1.32 (0.67-2.62)	112 (32.7)	1.01 (0.51-2.00)	46 (13.4)	0.90 (0.37-2.19)	64 (18.7)	0.99 (0.44-2.23)	16 (4.7)	0.50 (0.13-1.94)

Boldface numbers are statistically significant.

*sIgE and SPT results for at least 1 tested allergen.

†Adjusted for sex, age, maternal education, and parental asthma.